



## **Raja Singh Tuli**

555 Rene-Levesque West, Suite 1130, Montreal, Quebec H2Z 1B1, Canada

Tel: 514.871.0984 Fax: 514.871.3864

---

Applicant: Raja Singh Tuli

Examiner: Phan, Tho Gia

Application Number: 09/918,523

Filing Date: 08/01/2001

Date of Response: November 07/2003

Art Unit: 2821

---

United States Patent and Trademark Office  
Commissioner of Patents  
P.O. Box 1450,  
Alexandria, VA 22313-1450  
USA

RECEIVED  
NOV 17 2003  
TC 2800 MAIL ROOM

### **INFORMATION DISCLOSURE STATEMENT**

Sir:

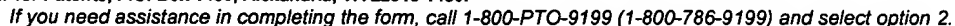
Enclosed is a copy of Information Disclosure Citation forms PTO/SB/08A and PTO/SB/08B and copy of non-U.S. patent documents. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation forms PTO/SB/08A and PTO/SB/08B be initialed by the examiner to indicate such a consideration and a copy thereof returned to the applicant.

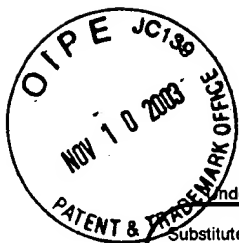
Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under 37 C.F.R. § 1.97 (b)(4).

Respectfully submitted,

Raja Singh Tuli  
Inventor





<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/918,523
		Filing Date	08/01/2001
		First Named Inventor	Raja Singh Tuli
		Art Unit	2821
		Examiner Name	Phan, Tho Gia
Sheet 1	of 2	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	✓	NAKAYAMA K et al, Charge-injection-controlled organic transistor, Applied Physics Letters, 2003, Vol. 82, No. 25, Pg. 4584	
	✓	NAKAYAMA K et al, Photocurrent multiplication at organic/metal interface and surface morphology of organic films, Journal of Applied Physics, 2000, Vol. 87, No. 7, Pg. 3365	
	✓	NAKAYAMA K et al, A high speed photocurrent multiplication device based on an organic double-layered structure, Applied Physics Letters, 2000, Vol. 76, No.9, Pg. 1194	
	✓	NAKAYAMA K et al, Direct tracing of the photocurrent multiplication process in an organic pigment film, Journal of Applied Physics, 1998, Vol. 84, No. 11, Pg. 6154	
	✓	HIRAMATO M et al, Photocurrent multiplication in amorphous silicon carbide films, Applied Physics Letters, 1991, Vol. 59, No. 16, Pg. 1992	
	✓	HIRAMATO M et al, Photocurrent multiplication in organic pigment films, Applied Physics Letters, 1994, Vol. 64, No. 2, Pg. 187	
	✓	HIRAMATO M et al, Spatially addressable light transducer....., Applied Physics Letters, 1990, Vol. 57, No. 16, Pg. 1625	
	✓	HIRAMATO M et al, Photocurrent multiplication in organic single crystals, Applied Physics Letters, 2002, Vol. 81, No. 8, Pg. 1500	
	✓	HIRAMATO M et al, Direct measurement of internal potential distribution in organic electroluminescent diodes....., Applied Physics Letters, 2000, Vol. 76, No. 10, Pg.1336	
	✓	HIRAMATO M et al, Field-activated structural traps at organic pigment/metal interfaces causing photocurrent....., Applied Physics Letters, 1998, Vol. 73, No. 18, Pg. 2627	

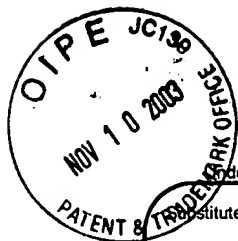
Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Applicant Number	09/01/2003 918,523		
		Filing Date	08/01/2001		
		First Named Inventor	Raja Singh Tuli		
		Art Unit	2821		
		Examiner Name	Phan, Tho Gia		
Sheet	2	of	2	Attorney Docket Number	

RECEIVED NOV 17 2003 MAIL ROOM

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	✓	HIRAMOTO M et al, Light amplification in a new light transducer combining....., Optical Review, 1994, Vol. 1, No. 1, Pg. 82	
	✓	HIRAMOTO M et al, Photocurrent mutiplication phenomena at organic/metal and organic/organic interfaces, Thin Solid Films, 1998, No. 331, pg. 71-75	
	✓	KATSUME T et al, Photocurrent mutiplication in naphthalene tetracarboxylic anhydride film at room temprature, Applied Physics Letters, 1996, Vol. 69, No. 24, Pg. 3722	
	✓	TANO T et al, Observation of photoassisted electroluminescent., Extended Abstarcts 2001 International Conferences on Solid State Devices and Materials, Tokyo, Pg. 638-639	
	✓	NI J et al, Organic light emitting diode with TiOPc layer....., Jpn. J. Appl. Phys., 2001, Vol. 40, Pg. L948-L951	
	✓	KATSUME T et al, Light amplfication device using oragnic electroluminescent diode coupled with photoresponsive....., Applied Physics Letters, 1995, Vol. 66, No. 22, Pg. 2992	
	✓	KATSUME T et al, High photon conversion in a light transducer combining oragnic electroluminescent diode....., Applied Physics Letters, 1994, Vol. 64, No. 19, Pg. 2546	
	✓	CHIKAMATSU M et al, Light up-conversion from near-infrared to blue using a photoresponsive organic light-emitting device, Applied Physics Letters, 2002, Vol. 81, No. 4, Pg. 769	
	✓	MATSUNOBU G et al, High-speed multiplication-type photodetecting device using organic codeposited films, Applied Physics Letters, 2002, Vol. 81, No. 7, Pg. 1321	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.